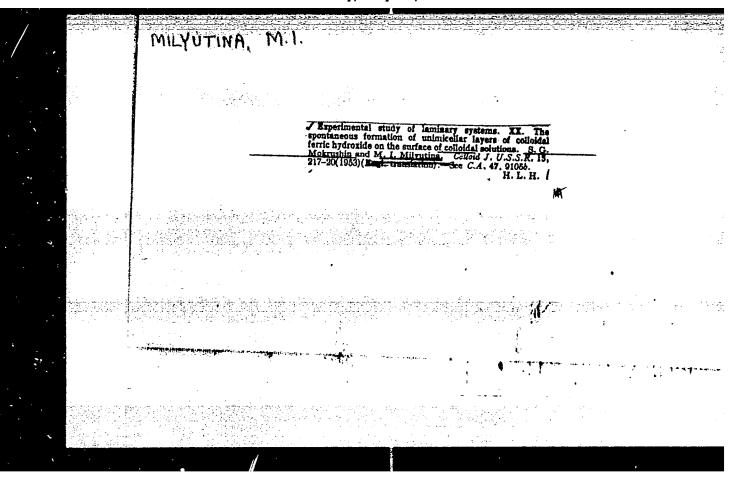
MOKRUSHIN, S.G.; MILYUTINA, M.I.

Experimental study of laminary systems. IX. The spontaneous formation of unimicellar layers of colloidal ferric hydroxide on the surface of colloidal solutions. Kolloid. Zhur. 15, 212-15 '53. (MLRA 6:5) (CA 47 no.18:9105 '53)

1. Ural Polytech. Inst., Sverdlovsk.



AUTHORS: Demeney, N. V., Milyutina, M.I., Sharova, A. K. and Shtin, A.P.

TITLE: Preparation of an Acid Sulphate of Trivalent Titanium.

(O poluchenii kisloy sernokisloy soli trekhvalentnogo titana).

PERIODICAL: "Zhurnal Neorganicheskoy Khimii" (Journal of Inorganic Chemistr

Vol.II, No.2, pp.465-467 (U.S.S.R.) /957.

ABSTRACT: The formation of a violet-coloured crystalline precipitate

in quantities strongly dependent on sulphuric-acid

concentration was observed when working with reduced acid solutions of titanium. To determine the composition of the precipitate and elucidate the conditions leading to its formation was the object of the work described. The solutions used contained either 15.25, 25.0 or 37.5 g/litre of TiO₂ initially, and the final contents of this and of sulphuric acid were determined. The results are tabulated and indicate that with 700 - 100 g/litre of H₂SO₄ precipitation occurs to 90-97%. Analysis of the salt prepared with careful exclusion of oxidation gave the composition Ti₂(SO₄).H₂SO₄.8H₂C

exclusion of oxidation gave the composition 112(004).1254.51
It is a crystalline powder soluble in water, dilute sulphuric and hydrochloric and concentrated sulphuric acids. It is recommended as a source of trivalent titanium for

analytical work. There are three references, one of which

is Russian. 1 Table.

Received April 26, 1956.

Card 1/1

MILYUTINA, M.I.; SHTIN, A.P.; SHAROVA, A.K.

Studying the interaction of trivalent titanium sulfate with sulfuric acid. Titan i ego splavy no.5:301-396 '61. (MIRA 15:2) (Titanium-Metallurgy)

s/828/62/000/000/010/017 E039/E420

Sharova, A.K., Demenev, N.V., Polyakova, V.M., AUTHORS:

Milyutina, M.I.

The physico-chemical basis of methods of separating TITLE:

titanium and the earth acids

Razdeleniye blizkikh po svoystvam redkikh metallov. Mezhvuz. konfer. po metodam razdel. blizkikh po svoyst. SOURCE:

red. metallov. Moscow, Metallurgizdat, 1962, 116-123

This work was undertaken because the properties of the fluoride complexes of Ti and Nb and their solubilities in various mineral acids are of importance in the development of separation It is shown that the optimum conditions for the separation of Ti and Nb from H₂SO₄ solution are: 10% H₂SO₄, separation of Ti and Nb from H₂SO₄ solution are: 10% H₂SO₄, like the separation of potassium 1% HF and 10% KCl. From a study of the interaction of potassium 1% HF and 10% KCl. salts with Te and Nb in H2504 a method is developed for separating these elements from medium and strong acid solutions. separation depends on the principal valency change in Ti. a potassium salt is introduced in H2SO4 solution containing Ti (180 to 250 g/litre H₂SO₄) the double sulphate of Ti and K is Card 1/2

The physico-chemical basis ...

S/828/62/000/000/010/017 E039/E420

When Ti and Nb are present in solution both metals precipitated. are precipitated in the form of isomorphous compounds. However, if Ti is present in the trivalent form, it is not precipitated and the Nb is separated from it in the precipitate in the form: K₂SO₄(NbO)₂(SO₄)₃·4H₂O. Data are obtained on the solubilities of Nb and Ti in the TiO₂-SO₃-H₂O system over a wide range of H₂SO₄ concentrations (180 to 1000 g/litre) and the conditions for their separation found. The separation of Nb and Ti is attained by the successive fractional precipitation of Ti in the form Ti2(SO4)3.H2SO4.8H2O and then the niobium sulphate complex (NH4)g[Nb603(S04)12] ·21H20 with an acidity of 800 to 900 g/litre H2S04. The product of this process contains 98.26 to 98.8% Nb₂0₅ and 0.3 to 0.5% TiO₂. As a result of this investigation the above methods are recommended for the separation of Nb and Ti. There are 2 figures and 2 tables.

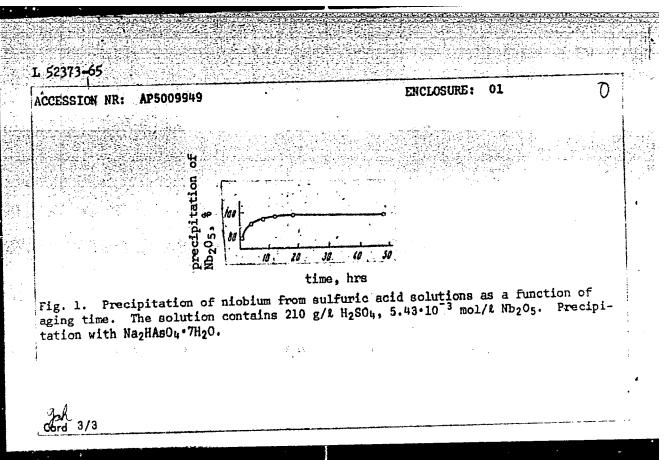
Card 2/2

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134330

Pull LJP(c) EWT(m)/EPF(n)-2/EWP(t)/EWP(b) UR/0078/65/010/004/0883/0888 ACCESSION NR: AP5009949 AUTHOR: Milyutina, M. I.; Sharova, A. K.; Titova, Z. M. 20 り TITLE: Niobium arsenate Established Autobalished SOURCE: Zhurnal neorganicheskoy khimii, v. 10, no. 4, 1965, 883-888 TOPIC TAGS: niobium compound, inorganic synthesis, arsenic compound, chemical reaction, precipitation, thermal analysis ABSTRACT: The precipitation of niobium arsenate from sulfuric acid solutions was studied. Niobium arsenate was precipitated with sodium arsenate. The amount of niobium arsenate, precipitate, its composition and properties were also studied. The data on the precipitation of niobium with sodium arsenate are shown in fig. 1 of the Enclosure. It is found that the optimum conditions for the precipitation of niobium arsenate are: 150-300 g/l of sulfuric acid; about 4% of Na2HAsO4.7H2O solution; As205:Nb205 = (10-20):1; aging of precipitate for 20 hrs. Niobium arsenates are formed by reaction of sodium arsenate with niobium in sulfuric acid as follows: $(NbO_2)_2SO_4 + Na_2HA_5O_4 = (NbO_2)_2HA_5O_4 + Na_2SO_4$

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134330

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	ACCESSION NR: AP500 Thermal and chemical showed the following As205. The existency stalline nature hydrates are amorphed	l analysis of the g compounds: 2Nb nce of a large nu	imber of a	x-ray diffraction .As 20 . The rema	lines indi- ining niobi	cates the !
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CCESSION NR: AT4042097

S/2768/63/000/007/0079/0083

NUTHOR: Sharova, A.K.; Milyutina, M.I.

MITLE: Separation of niobium and titanium (III) in sulfuric acid solutions.

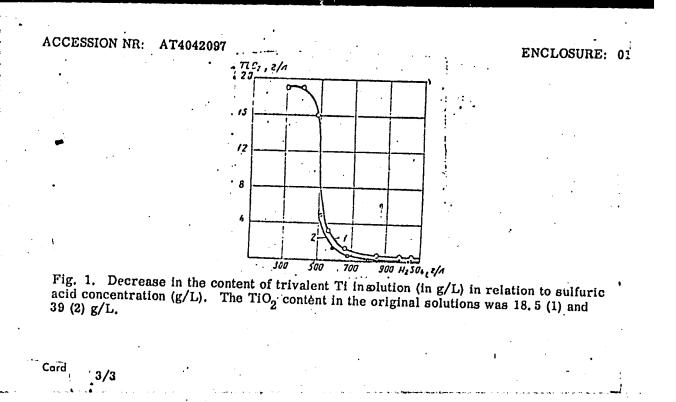
OURCE: AN SSSR. Ural'skiy filial. Institut khimii. Trudy*, no. 7, 1963. Khimiya i ekhnologiya redkikh metallov (Chemistry and technology of rare metals), 79-83

:OPIC TAGS: niobium, titanium, niobium purification, titanium purification, electrolytic eduction, titanium reduction

BSTRACT: The authors investigated the possibility of separating titanium (III) from niobium V) in strong sulfuric acid solutions on the basis of the increase in formation of an insoluble itanium (III) compound with increasing concentration of the acid. A curve showing the yield f precipitate versus acid concentration is shown in the Enclosure. Analysis of the precipitate dentified it as Ti₂(SO₄)₃· H₂SO₄· 8H₂O. Solutions of 600 — 900 g/L H₂SO₄ containing TiO₂ and Nb₂O₅ in proportions of 6:1, 4:1, 2:1, and 1:1 were then used in experiments in which he TiO₂ was precipitated in the above form by electrolytic reduction, while the niobium renained in the solution. The process is illustrated by diagrams. Orig. art. has: 6 figures and 1 table.

Card 1/3

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ACCESSION NR: AT4042098

AUTHOR: Milyutina, M. I., Sharova, A. K.

TITLE: Fractional precipitation of titanium and niobium sulfates from solutions of sulfuric acid

SOURCE: AN SSSR. Ural'skiy filial. Institut khimii. Trudy*, no. 7, 1963. Khimiya i tekhnologiya redkikh metallov (Chemistry and technology of rare metals), 85-89

TOPIC TAGS: titanium, niobium, tantalum, titanium purification, niobium purification, fractional precipitation, metal sulfate fractionation?

ABSTRACT: A solution containing 245 g/L H₂SO₄, 48 g/L TiO₂, 10.25 g/L Nb₂O₅, and 3.52 g/L Fe₂C₃ was used in a study of the successive precipitation of titanium and hiobium in the form of their low-valence sulfates. Titanium reduced electrolytically to Ti⁺³, was precipitated (as Ti₂(SO₄)₃ H₂SO₄ 8H₂O) by adding sulfuric acid to the solution to a concentration of 800-900 g/L. The Nb⁺³ and Nb⁺⁵ remaining in the solution was then precipitated in the form of ammonium sulfate-niobiate, (NH₄)₈ [(Nb₆O₃) (SO₄)₁₂] . 21H₂O₅

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Milyutina, N.A.

Card 1/1

137-58-5-9317

G.S.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 75 (USSR)

Tarabayev, S.I., Budon, V.D., Matveyeva, K.T., A UTHORS:

Milyutina, N.A.

Direct Leaching of Lead From Sulfide Concentrates (Neposred-TITLE:

stvennoye vyshchelachivaniye svintsa iz sul'fidnykh kontsentra-

tov)

Izv. AN KazSSR. Ser. gorn. dela, metallurgii, str-va i PERIODICAL:

stroymaterialov, 1957, Nr 4 (15), pp 59-65

The process of direct and selective leaching of lead from ABSTRACT:

sulfidic polymetallic concentrates by means of acidic chloride solutions was studied under laboratory conditions as well as on a larger laboratory scale. Optimal leaching conditions for extraction of up to 97-98% of Pb are shown. Along with Pb, Cd (96% of it) and Ag also pass into the solution. Cu, Au, and Bi remain entirely in the cakes. The behavior of Zn depends on

the nature of the initial raw material and on the conditions of

leaching.

2. Lead ores--Processing 1. Lead--Production

3. Chloride solutions--Applications

SOV/137-58-9-18793

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 9, p 91 (USSR)

AUTHORS: Tarabayev, S.I., Milyutina, N.A., Budon, V.D., Dostanova,

Z.Kh.

TITLE: Precipitation of Lead From Chloride Solutions. Communica-

tion II. (Osazhdeniye svintsa iz khloridnykh rastvorov.

Soobshcheniye II)

PERIODICAL: Izv. AN KazSSR. Ser. gorn. dela, metallurgii, str-va i

stroymaterialov, 1957, Nr 5 (16), pp 30-36

ABSTRACT: An examination is made of methods of precipitating Pb from

chloride solutions. Experiments were run on the crystallization of PbCl₂ by chloride solutions during the cooling of solutions resulting from the leaching of Dzhezkazgan concentrates. The resultant PbCl₂ was smelted with mineral coal and CaCO₃ at 800-900°C to free the metal. Extraction of Pb in ingot form came to 93.52%. It is established that the method of crystallizing PbCl₂ with subsequent smelting of the metal from the PbCl₂ in the presence of C and CaCO₃ makes it possible to obtain metal of adequate purity without prior cleaning of the solutions.

Card 1/2 The tendency of the solutions to become "exhausted" after Pb

SOV/137-58-9-18793

Precipitation of Lead From Chloride Solutions. Communication II.

precipitation when they are used as return solvents is verified. For Communication I, see RZhMet, 1958, Nr 5, 9317.

N.P.

1. Lead chlorides--Processing 2. Lead--Separation

Card 2/2

MILYUTINA, N. A.: Master Tech Sci (diss) -- "The problem of hydrolysis of the chlorides of heavy nonferrous metals". Alma-Ata, 1958. 12 pp (Acad Sci Kazakh SSR, Inst of Metallurgy and Ore Dressing), 150 copies (KL, No 4, 1959, 127)

TARABAYEV, S.I.; MILYUTINA, N.A.

Settling, filtration, and washing of sinter cake following the leaching of concentrates in chloride solutions. Izv.AN Kazakh.SSR.Ser.met.,obog.i ogneup. no.2:26-31 '58.

(MIRA 16:2)

(Hydrometallurgy)

MILYUTINA, N.A.; TARABAYEV, S.I.

Hydrolysis of heavy nonferrous metal chlorides. Isv.AN Kazakh. SSR.Ser.met., obog.i ogneup. no.2:56-64 '58. (MIRA 16:2) (Nonferrous metals, Metallurgy) (Hydrolysis)

MILTUTINA, N.A.; ISAKOVA, R.A.; TARABAYEV, S.I.

Method of determining the water of crystallisation in crystal

Method of determining the water of crystallisation in crystal

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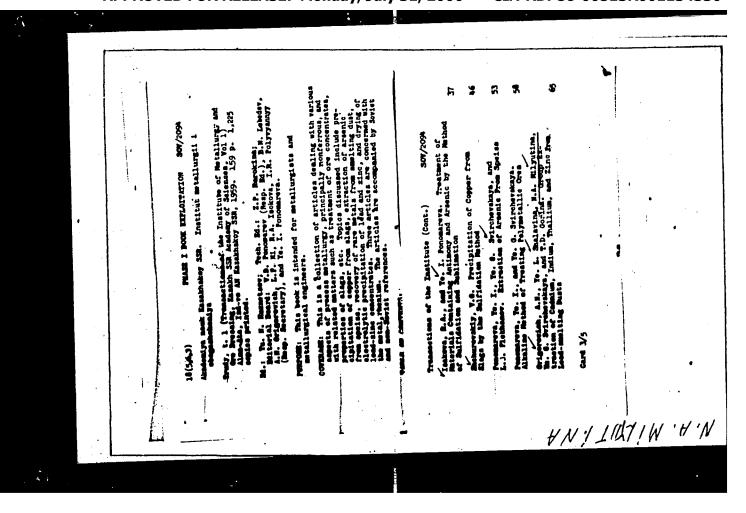
Method of determining the water of crystallisation in crystal

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MILYUTINA. N.A.

Observations on Torodo navalis during its setting and the initial period of bering into weed [with summary in English]. Zeel. zhur. 38 no.4:520-536 Ap '59. (MIRA 12:5)

1. Chair of Invertebrate Zeelegy, Bielegical-Pedelegical Faculty, Moscow State University.

(Shipwerms)

S/137/62/000/002/035/144 A006/A101

AUTHORS:

Polyvyanskiy, I. R., Milyutina, N. A.

TITLE:

Tellurium concentration and extraction of silver and lead from

cupel dusts

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 25, abstract 20192

("Izv. AN KazSSR, Ser. metallurgii, obogashcheniya i ogneuporov",

1961, no. 2, 10-17, Kaz. summary)

TEXT: Results are given on laboratory experiments on the melting of cupellation dusts with Na₂SO₁, and C, in graphite crucibles and an electric furnace. Optimum conditions are: 1,000°C; holding time - 20 min; Na₂SO₁, amount - 15 to 20% of the dust weight; carbon 4 - 5%. The degree of extraction (in %) is: into the alloy - Pb 98.5, Ag 99.5; into the thiosalt melt - Te 98; Zn 94; Se 90.

A. Tseydler

[Abstracter's note: Complete translation]

Card 1/1

TSEFT, A.L.; MILYUTINA, N.A.; VASIL'YEVA, V.A.

Leaching of mixed Dahezkazgan ores by chloride solutions. Izv. AN Kazakh.SSR.Ser.met., obog.i ogneup. no.2:64-72 *61.

(MIRA 14:8)

(Daheakazgan--Copper ores) (Leaching)

TSEFT, A.L.; VASILITEVA, V.A.; MILYUTINA, N.A.

Leaching of mixed Dzhezkazgan ores by solutions of sulfuric acid containing salts of trivalent iron. Report no.2. Izv.AN Kazakh. SSR.Ser.met., obog.i ogneup. no.2:73-84 '63. (MIRA 14:8) (Dzhezkazgan—Copper ores) (Leaching)

S/817/62/005/000/003/012 A006/A101

AUTHORS:

Polyvyannyy, I. R., Milyutina, N. A.

TITLE:

Joint processing of tellurium-containing products of the lead

industry:

SOURCE:

Akademiya nauk Kazakhskoy SSR. Institut metallurgii i obogashche-

niya. Trudy. v. 5, 1962, Tavetnaya metallurgiya, 57 - 68

TEXT: Melting with sodium sulfate, and reduction melting with soda slags (sodium antimonate melt slags) were the two methods used in the joint processing of tellurium-containing products for the purpose of extracting lead, precious metals and antimony into the crude lead, and tellurium into the matte-slag melt, with subsequent hydrometallurgical processing of the latter. The object of the experiments was: determining the effect of temperature and duration of melting upon tellurium concentration in the matte-slag melt, and upon the yield of lead, silver and antimony into the crude metal; determining the tellurium concentration in the melt and the extraction of lead, silver and antimony into the crude metal, depending upon the charge composition, and analyzing the joint melting of

Card 1/2

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: s/817/62/005/000/003/012 A006/A101

4

Joint processing of...

cupellation dust, antimonous slag and reguline lead. It was found that the most efficient method for the joint processing of the above-mentioned materials was reduction melting to sodium slag. The optimum conditions are: 1,050°C; time of holding the melt at this temperature: 20 min; optimum composition of the charge: 60% antimonate melt slag; 50% reguline lead and 5% carbon (of the dust weight). The products of imelting cuppelation dust with antimonate slag are analyzed and show that tellurium can be fully extracted into the sodium slag melt, and lead, silver and antimony into the crude metal. The melting process yields two products: 1) crude lead in which are concentrated 97.4 - 99% lead, 95.5 - 100% silver and 97.6 - 98.9% antimony; 2) alkaline melt: tellurium extraction is 99.3 - 99.9%, the matte-slag melt contains up to 1.34% tellurium. An amount of 0.05 to 0.001% tellurium remains in the crude lead. There are 3 figures and 8 tables.

11

Card 2/2

POLYVYANNYY , I.R.; MILYUTINA, N.A.

Hydrometallurgical processing of fused sodium matte from sodium sulfate smelting of cupellation dusts. Trudy Inst. met. 1 chos. AN Kazakh. SSR 6:64-71 '63.

Treatment of alkali melts obtained in the smelting of telluriumbearing materials. Trudy Inst. met. i obog. AN Kazakh. SSR 6:72-76 '63. (MIRA 16:10)

POLYMY AMPY, I.E.; DERCHENKO, R.S.; MILYUTINA, N.A.

Inventigating the aqueous leaching of tangsten-molybdenum containing molten sedium matte. Trudy Inst. met. i cbog. AN Kazakh. SSR 12:154-160 '65. (MIRA 18:10)

POLYVYANNYY, J.R.; MILYUTINA, N.A.; SYGOYEV, L.N.

Sevarating tungsten and molybdenum in alkali sulfide solutions.
Trudy Inst. met. 1 obog. AN Kazakh. SSR 12:161-167 65.

(MIRA 18:10)

MILYUTINA, T.

Solvent for zinc sulfate. Khim.volok no.6:68 '63. (MIRA 17:1)

1. Krasnoyarskiy zavod.

VOLKOVA, Ye.A.; MILYUTINA, N.P.

Investigating the graduated circle of goniometers. Trudy VNIIM no.16:42-49 '51. (MIRA 11:6)

DRABKIN, A. Ye.; MILYUTINA, N. V.

Removal of hydrogen sulfide of iron hydoxide suspensions from shale gas. Trudy VNIIT no. 11:269-276 *62. (MIRA 17:5)

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• • • •

AND ZHAPARIDZE, O.G.; ZUBOVA, Z.F.; GORDIYENKO, N.M.; MILYUTINA, R.I.

Cotaining immune serums against epidemic encephalitis. Vop.virus.

2 no.4:248-251 J1-Ag '57. (MIRA 10:12)
(EHCEPHALITIS, EPIDEMIC, immunology,

Bussian-tick borne, prod. of immune sera (Rus))

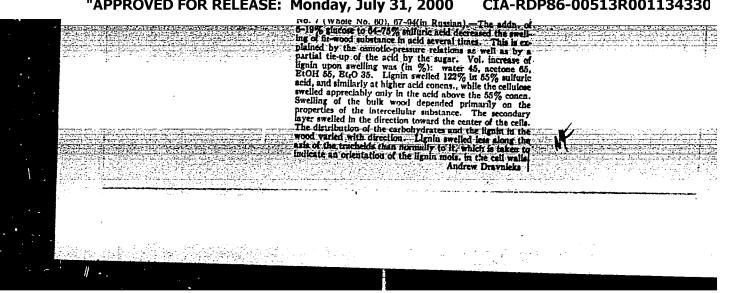
- 1. ODINTSOV, P. N. : MILYUTINA, S. V.
- 2. USSR (600)
- 4. Wood Chemistry
- 7. Swelling of cellular walls of spruce wood in sulfuric acid and in acid sol tions of glucose. Larv. PSR Zin. Akad. Vestis no. 9. 1950

9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

MILUTINA, S.V.

Sweiling of fir-wood substance and living is suffuric acid, water, and organic solvents. P. N. Compared and S. V. Milletine (Inst. Porest. Econ. Problems, Acad. Sci. Davids algal. Lalying FSR Zundigs Acad. Visits 1932, No. 7 (Whole No. 80), 87-04/in Bushala and Visits 1932.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134330



MILYUTINHOSA

USSR / Cultivated Plants. Redicinal Plants. Essential Oil Plants: Toxic Plants.

AbsJour : Ref Zhur - Biol., No 34853

: Kalnin'sh, A. I.; Rupays, E. A.; Milyutina, 3. V. Authors Inst

: AS latvs3R

Titlo : Study of the Accrone Louf of the Meedles of

Highly Resiniforous Pines

: Izv. AN LatvSSR, 1957, #3, 79-87 Orig Pub

Abstract : By anatomical comparison methods, it was found

that resin productivity of the common pine increases with the amount and size of the central and peripheral resin ducts in the accrese leaf.

-- Sukhov.

Card 1/1

SERGEYEVA, V.N.; MILYUTINA, S.V.

Changes in the morphology and properties of the cell walls of helecellulose and cellulose fibers of spruce brought about by thermal processing. Gidroliz i lesokhim. prom. 11 no.3:3-5 158.

(MIRA 11:5)

1. Institut lesokhosyaystvennykh problem AN Latviyskoy SSR.
(Spruce) (Holocellulose) (Cellulose)

23962 S/103/61/022/007/008/008 D252/D**3**02

9,8300 AUTHORS:

Lyubinskiy, I.A., Milyutina, V.A. and Pozin, N.V.

(Moscow)

TITLE:

Pulse-frequency telemetering transmitter

PERIODICAL:

Avtomatika i telemekhanika, v. 22, no. 7, 1961,

934-938

TEXT: The pulse-frequency telemetering device ChTI-1 is designed for measuring small d.c. voltages. It produces rectangular pulses of duty ratio 2, which are proportional to the measured voltage. Noiseproof telemetering channels require a narrowing of the frequency range; hence the frequency range of the pulse produced by the device was chosen from 5 to 15 cycles. The device uses transistors. Fig. 1 shows a block-diagram of the device: low-frequency filter 1, d.c. amplifier 2 which contains a modulator-converter of d.c. into a.c., an a.c. amplifier and a rectifier, pulse-generator 3, and unit 4 for retransforming frequency into voltage. The transmission factor for the closed system is approximately 1/3 for large values of

Card 1/5

23962 S/103/61/022/007/008/008 D252/D302

Pulse-frequency telemetering...

k & (k being the transmission factor of the direct channel, and of the feedback channel). The placing of the filter in the direct channel permits (due to the absence of lag elements in the feedback channel) considerably simplifying the amplifier circuit by excluding channel) considerably simplifying the amplifier circuit by excluding the phase-sensitive stage. For comparison, the expressions for the transfer function are given: a) filter in direct channel

$$k'(p) = \frac{k_1(p)k_2k_3}{1 + k_1(p)k_2k_3\beta} = k_2k_3 \frac{1}{ap^2 + bp + c + k_2k_3\beta};$$

b) filter in feedback channel

) filter in feedback channel
$$k''(p) = \frac{k_2k_3}{1 + k_1(p)k_2k_3\beta} = k_2k_3 \left(1 - \frac{k_2k_3}{ap^2 + bp + c + k_2k_3\beta}\right).$$

is the transfer function of the RC-filhere $k_1(p) = \frac{1}{ap^2 + bp + c}$

ter, k_2 - the amplification factor of the amplifier, k_3 - the voltage-into-frequency transformation factor. The transient functions for a) and b) are respectively

Card 2/5

23962 S/103/61/022/007/008/008 D252/D302

Pulse-frequency telemetering...

Card 3/5

$$h'(t) = \frac{k_2k_3}{c + k_2k_3\beta} \left(1 - \frac{p_1e^{-p_2t} - p_2e^{-p_1t}}{p_1 - p_2}\right)$$
,

$$h''(t) = k_2 k_3 \left(\frac{c}{c + k_2 k_3 \beta} + \frac{p_1 e^{-p_2 t} - p_2 e^{-p_1 t}}{p_1 - p_2} \right)$$

 $h''(t) = k_2k_3 \left(\frac{c}{c + k_2k_3\beta} + \frac{p_1e^{-p_2t} - p_2e^{-p_1t}}{p_1 - p_2} \right).$ where p_1 and p_2 are the roots of $ap^2 + bp + c + k_2k_3\beta = 0$. From the relationships for a two-link RC-filter it follows that for stable operation of the circuit it is necessary that the time-constant of the first link should be much larger than that of the second link. The device incorporates a torque-balance technique. One of the advantages of the chosen circuit is the possibility of considerably increasing the input resistance of the device, and that is due to the compensation of the input signal by the feedback voltage, in the circuit of the measured voltage. A new type of magnetic modulator M (with transverse excitation) is used. Its transmission factor is approximately 0.8 - 0.9 and does not depend on the voltage and frequency variations of the supply source and on the temperature



23962

S/103/61/C22/007/008/008 D252/D302

Pulse-frequency telemetering...

of the surroundings over a wide range. The modulator is practically inertia-free. The a.c. amplifier consists of triodes of type P13B and P14 (triodes P1,P2,P3,P4). P5 is a blocking generator. The device was laboratory-tested, and has the following main characteristics: pickup-voltage range: 25 milliv., input resistance of the order of 50 k , stabilization time of frequency: 0.5 sec. size: 255 x 215 x 140 mm. Owing to the new type of magnetic modulator, the design was considerably simplified compared with previous devices (ChIS-D-1 or ChIG-D-2). The high-ohmic input results in greatly increased sensitivity (10-8v) as stated in A.M. Pshenichnikov (Ref. 4: Staticheskoye peredayushchee ustroystvo chastotno-impuls'snoy sistemy teleizmereniya, Avtomatika i telemekhamika, v. 18, no. 5, 1957). The device can be used for transmitting readings from a wide variety of d.c. pickups with small output strength, including thermoelement pickups, and pickups with bridge circuits, e.g. gas-analyzers for telemetering the methane concentration in mines. There are 4 figures and 4 Soviet-bloc references.

SUBMITTED:

December 29, 1960

Card 4/5

MILYUTIMA, Te.I.

Measures for decreasing the incidence of tonsillitis in Sverdlovsk.

Zdrav.Ros.Feder. 2 no.1:20-24 Ja '58. (MIRA 11:2)

1. Zavejuyushchaya Sverdlovskim gorodskim otdelom zdravcokhrameniya.

(SVERDLOVSK--TOMSILS--DISMASMS)

MILYUTINA, Ye.I.

Sverdlovsk conference of physicians serving medical districts.

Zdrnv.Ros.Peder. 2 no.3:43-45 Mr '58. (MIRA 11:3)

(SVERDLOVSK-PUBLIC HEALTH)

MILYUTINA, Ye.I.; NOSKOVA, G.N.

Analysis of visits to medical institutions by workers of industrial enterprises. Zdrav. Ros. Feder. 4 no. 4:24-26 Ap '60.

(MIRA 13:10)

1. Iz Sverdlovskogo gorzdravotdela.
(SVERDLOVSK—DISEASES—REPORTING)

BAGARYATSKIY, B.A.; FEL'DSHTEYN, Ya.I.; LEBEDINSKIY, A.I., doktor fiz.-matem. nauk, otv. red.; MILYUTINA, Ye.N., red.

[Collection of articles] Sbornik statei. Moskva, Nauka. No.12. 1965. 56 p. (MIRA 18:4)

1. Akademiya nauk SSSR. Mezhduvedomstvennyy geofizicheskiy komitet. IV razdel programmy MGG. Polyarnyye siyaniya.

MILYUTINA, YE. V.

33546

Osobennosti Klinicheskikh Kertin V Zavisimosti Ot Urovnya Raneniya Perifericheskikh Nervov. Trudy Kurskogo Gos. Med. In-Ta, T.11, Vyp. 2, 1948, c. 161-66

SO: Letopis' Zhurnal'nykh Statey, Vol 45, Maskva, 1949

MILYUTINA, Ye. V.

"Early Semiotics and the Development of Clinical Phenomena in Multiple Sclerosis. Sub 16 Jan 51, Central Inst for the Advanced Training of Physicians.

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55.

MILYUTINA, Ye.V., assistent

Etiological kinship of multiple sclerosis and acute disseminated encephalomyelitis on the basis of experimental data. Shor. trud. Kursk. gos. med. inst. no.13:249-253 !58. (MIRA 14:3)

1. Is instituta virusologii AMN SSSR (zav. laboratoriyey - prof. A.K.Shubladze) i kliniki nervnykh bolesney Kurskogo gosudarstvennogo meditsinskogo instituta (zav. - professor N.I.Golik).

(MULTIPLE SCLEROSIS) (ENCEPHALOMYELITIS)

MILYUTINA, Ye.V., assistent

Clinical picture of the initial period during the acute course of multiple sclerosis. Sbor. trud. Kursk. gos. med. inst. no.13:254-257 '58. (MIRA 14:3)

1. Iskliniki nervnykh bolesney (sav. - prof. N.I.Golik) Kurskogo gosudarstvennogo meditsinskogo instituta.
(MULTIPLE SCLEROSIS)

GOLIK, N.I.; MILYUTINA, Ye.V.

Some results of clinical and pathomorphological study of multiple sclerosis and acute encephalomyelitis. Vest. AMN SSSR 16 no.6: 35-45 '61. (MLA 15:1)

1. Kurskiy meditsinskiy institut. (MULTIPLE SCLEROSIS)

(ENCEPHALOMYELITIS)

GOLIK, Nikolay Ivanovich; MILYUTINA, Yevgeniya Vasil'yevna; GOTOVTSEV, P.I., red.; PETHOVA, N.K., tekhn. red.

[Multiple sclerosis and acute disseminated encephalomyelitis]
Mnozhestvennyi skleroz i ostrye disseminirovannye entsefalomielity. Moskva, Medgiz, 1962. 113 p. (MIRA 15:12)
(MULTIPLE SCLEMOSIS) (ENCEPHALOMYELITIS)

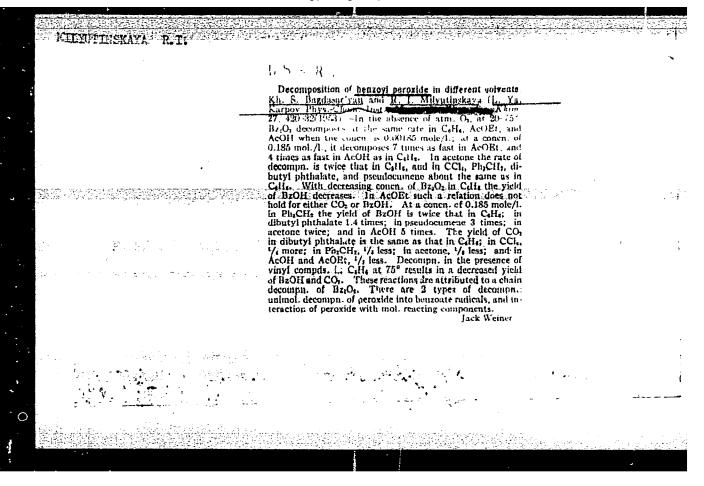
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MILYUTINA, Ye.Ya.; SIMKHOVICH, Ye.I.; DIMAND, S.V.

Results of melaria and helminth infections control in the Moldavian S.S.R. Med.paraz. i paraz.bol. 26 no.5:588-592 S-0 *57. (MIRA 11:2)

1. Iz Respublikanskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach A.Kovalev)

(MAIARIA, prev. & control
    in Moldavian Russia (Rus))

(HELMINTH INFECTIONS, prev. & control
    same)
```



MILYUTINSKAYA, R. I. USSR/Chemistry

Card 1/2

Bagdasaryan, Kh. S., and Milyutinskaya, R. I.

Photochemical Reactions of carbon tetrachloride with vinyl Authors

Title compounds

Zhur. Fiz. Khim. 28, Ed. 3, 498-506, March 1954 Periodical

The exposure of carbon tetrachloride mixtures to the effect of vinyl compounds leads to a move or less considerable increase in the rate of polymerization or the formation of carbon tetrachloride Abstract addition products with double bond. Typical is the behavior of styrene and vinyl butyl ether. Styrene dissolved in carbon tetrachloride polymerizes much faster than in an inert solvent. The molecular weight of polymers decreases simultaneously, Styrene is a photoactive component; the increase in the rate of polymerization is caused by the increase in the rate of formation of primary radicals. Vinyibutyl ether mixed with carbon tetrachloride forms an addition product with composition ratio of 1:1. The rate of

reaction is proportional to the first degree of light intensity, the thermal

Zhur. Fiz. Khim. 28, Ea. 3, 498-506, March 1954

Card 2/2

Abstract

s coefficient is close to one. It is a chain reaction. The quantum yield increases during the reduction in the ether concentration and reaches several thousands in diluted solutions. Hexachloroethane chloroform, and allyl chloride also accelerate the photopolymerisation of vinyl compounds but to a much lesser degree than carbon tetrachloride. Seven USSR references. Table, graphs.

Institution

The L. Ya. Karpov Physico-Chemical Institute, Moscow, USSR.

Submitted

June 19, 1953

MILYUTINSKAYA, R. I.

USSR/Chemistry

Card 1/1

Authors

Milyutinskaya, R. I., and Bagdasaryan, Kh. S. THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN

Title

: Study of the mechanism of radical reactions. Part 3. - Decomposition of benzoyl peroxide and its p, p'-dinitro- and p, p'-dimethoxy-derivatives in benzene and nitrobenzene.

Periodical

: Zhur. Fiz. Khim., 28, Ed. 5, 797 - 800, May 1954

Abstract

The decomposition of benzoyl peroxide and its dinitro- and dimethoxyderivatives in benzene and nitrobenzene was used as an example to prove the value of the nolarity of molecules and free radicals for the process of radical reactions. The polarity of radicals may at times have a double effect on the rate of radical reactions. At distances up to the sum of the van der Waals radii, the opposite polarity of the reacting components should be favorable for the radical reaction by increasing the number of collisions. Seven references: 6-USSR; 1-USA. Table.

Institution : The L. Ya. Karpov Physico-Chemical Institute, Moscow.

Submitted

July 3, 1953

MILYUTINSKAYA, R. I., Cand Chem Sci -- (diss) "Radical Reactions of Benzoyl Peroxide in Solutions." Mos, 1957. 15 pp (Min of Chemical Industry USSR, Order of Labor Red Banner Sci Res Physicochemical Inst im L. Ya. Karpov), 110 copies (KL, 50-57, 118)

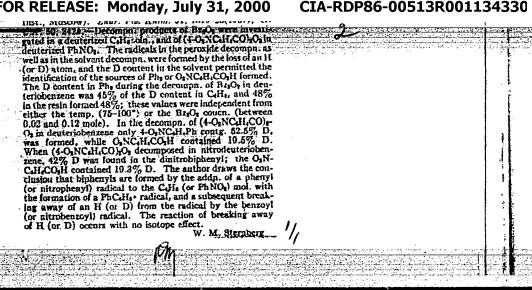
- 10 -

MILYUTINSKAYA, R.I.

Distr: 4841/483d

An investigation of the radical reactions mechanism. IV.
The mechanism of biphenyl formation during the henrod peroxide and 4-nitrobenzoyl peroxide decomposition in benzene and nitrobenzene R. I. Miborinskaya, Kh. S. Bagdasar'van, and E. A. Fraillesten U. Ya. Karpoy Phys. Chem. Inst., Moscow). Zhur. Fiz. Khim. 31, 1014-26(1907); cf.

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134330



AUTHORS: Milyutinskaya, R. I., Bagdasar'yan, Kh. S., 76-32-2-29/38 Kopytovskiy, Yu.

TITLE Investigation of the Mechanism of Radical Reactions

(Issledovaniye mekhanizma radikal'nykh reaktsiy) V. Decay of 4-Nitrobenzoylperoxide in Toluene (V. Raspad perekisi 4-nitrobenzoila v toluole)

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Nr 2, pp. 428-432 PERIODICAL:

(USSR). With Burney Jan Towns of the state of

ABSTRACT: Data were obtained in earlier works by the authors (reference 1)

which prove the assumptions of rederence 3 concerning the scheme of the formation of diphenyl in the decomposition of nitroben= zoylperoxide and its substituents in aromatic solvents according to (1) and (2). The radical occuring in (1) and (2) can in a special case also be a benzoate radical. The there obtained re= sult agrees with the mechanism of the formation of nitrobenzoic acid (according to reactions (1) and (2), where X denotes a nitrobenzoate radical) from reaction (3). In this connection the following problem appaers: can a nitrobenzoate radical dissolve

Card 1/3 out a movable hydrogen from the alkyl group belonging to the aro-

Investigation of the Mechanism of Radical Reactions V. Decay of 4-Nitrobenzoylperoxide in Toluene

76-32-2-29/38

matic ring? In order to solve this problem the authors investi= gated the decomposition of h-nitrobenzoylperoxide in toluene partly deuterized in the methyl group, as well as in toluene partly deuterized in the ring. The results obtained showed without any doubt two ways for the formation of nitrobenzois acid: the reaction (3) that is $R = NO_2C_6H_h$, $R_1 = CH_3$, and the reaction (4). Data are given by means of which the share of nitrobenzoic acid obtained by reaction (4) as well as the kinetic isotopic effect in this reaction can be determined. The equations (5) and (6) for the deuterium content in nitroben= zoic acid (obtained in the toluene deuterized in the ring or the methyl group) are given. From these the equation (7) for the isotopic effect is obtained. The values calculated according to this equation are within the limits of from 1,79 to 2,17. The isotopic effect in the reaction of the dissolving out of hydrogen from the

The share of the nitrobenzoate radicals which react according to reaction (3)-in the concentration of peroxide in the solution from 0,16 M and 100° - amounts to 0,365.

toluene by the $MO_2C_6H_{ll}COO$ radical (reaction (4)) is equal to 1,92

Card 2/3

The work was discussed with S. S. Medvedev.

Investigation of the Mechanism of Radical Reactions V. Decay of 4-Nitrobenzoylperoxide in Toluene

76-32-2-29/38

There are 1 table, and 7 references, 2 of which are Soviet.

ASSOCIATION: Physico-chiemical Institute imeni L. Ya. Karpov, Moscow

(Fiziko-khimicheskiy institut im. L. Ya. Karpova, Moskva)

SUBMITTED: December 12, 1956.

1::Nitro compounds--Decomposition 2. Benzoyl peroxide--Decomposition

3. Toluene--Chemical reactions

Card 3/3

68348

5.5500 5(4)

AUTHORS:

Bagdasar'yan. Kh. S. Hilyutinskaya, R. I.

S/076/60/034/01/043/044 B004/B007

B004/

TITLE:

A New Method of Investigating the Reactivity of Organic Compounds to Radicals

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 1, pp 234 - 235 (USSR)

ABSTRACT:

The authors describe a variant of the method of competitive reactions, which was worked out by themselves. It is based upon the application of tagged radicals and the determination of the reaction products by means of isotope dilution. Thus it is possible to use the tagged radicals in low concentration (0.01 ml/l), so that the reactions of these radicals may be neglected. The authors describe carrying-out of their method in the case of the reaction of the phenyl radical with aromatic compounds. A table gives the data for the reaction of benzoyl peroxide in a mixture of benzene + CCl₄, nitrobenzene + CCl₄, naphthalene + CCl₄, and cumene + CCl₄ at 100°.

Card 1/2

68348

A New Method of Investigating the Reactivity of S/076/60/034/01/043/044 B004/B007

The reaction constants found agree with the data obtained by employing other methods. At present the authors employ the method described for systematic investigations. There are 1 table and 3 references, 1 of which is Soviet.

V

ASSOCIATION:

Fiziko-khimicheskiy institut im. L. Ya. Karpova Moskva (Institute of Physical Chemistry imeni L. Ya. Karpov, Moscow)

SUBMITTED: June 18, 1959

Card 2/2

ు. చేస్తులం 68856 5.3830(A) s/076/60/034/02/021/044 Milyutinskaya, R. I., Bagdasar'yan, AUTHORS: B010/B017 Kh. 5. Investigation of the Mechanism of Radiçal Reactions. VI. On the TITLE: Reaction Mechanism of Benzoyl Peroxide With Amines Zhurnal fizicheskoy khimii, 1960, Vol 34, Nr 2, pp 405-412 (USSR) PERIODICAL: S. P. Gambaryan (Refs 1,2) had already observed that amines react rapidly with bensoyl peroxide. O. A. Chaltykyan (Ref 4) and Horner ABSTRACT: (Ref 5) found that free radicals are formed in this connection. Since the reaction kinetics proper has been little investigated the authors tried in the present case, in centinuation of previous investigations (Ref 7), to obtain a direct proof of the formation of free radicals in the reaction of bensoyl peroxide with secondary amines. The polymerization method and the reaction with diphenylpicrylhydrasine were applied, and the kinetic isotope effect in the exchange of the hydrogen atoms in the amino group with deuterium was determined. H-deuterium aniline and H-deuterium diphenylamine were produced by shaking out with heavy water, &, & diphenyl-&picrylhydrasine (DPPH·H) and the corresponding hydrasyl (DPPH) was produced by E. A. Mistryukov according to the method of Renn-Goldschmidt (Ref 8). The polymerisation kinetics of methyl-Card 1/3

Investigation of the Mechanism of Radical Reactions. VI. On the Reaction Mechanism of Bensoyl Peroxide With Amines

68856 \$/076/60/034/02/021/044 B010/B017

methacrylate initiated by the benzoyl peroxide diphenylamine mixture was investigated according to the dilatometric method by Z. A. Sinitsyna. The value k = 1.17.10 exp (- 16400/RT) 1/mol sec. (1) was obtained for the bimolecular constant of the reaction with diphenylamine, and the value $k = 1.86 \cdot 104 exp (-10700/RT) 1/mol$ sec. (4) with aniline. A comparison of the constant of the reaction rate (Tables 1,2) shows that the constant does not change in the exchange of protium with deuterium, i.e. no isotope effect takes place, and thus the transition of hydrogen from the amine to benzoyl peroxide does not influence the reaction rate. Kinetic experiments on the reaction of bensoyl peroxide with anilines substituted in the ring have also been carried out (Table 3). The constants of the Arrhenius equation for the benzoyl-peroxide reactions with amines are mentioned (Table 4), and the reactions are discussed from the point of view of the reaction theory of electron transition. The benzoyl-peroxide reaction with diphenylamine takes place clearly with the formation of free radicals which are capable of cleaving off the hydrogen atom from DPPH·H, and which effect a polymerization of methylmethacrylate. The efficacy of the benzoyl peroxide diphenylamine mixture in bringing about the polymerisation

Card 2/3

68856

Investigation of the Mechanism of Radical Reactions. VI. On the Reaction Mechanism of Bensoyl Peroxide

S/076/60/034/02/021/044 B010/B017

4

of methylmethacrylate was found to be about 0.001 at 25°. A paper by A. S. Kus'minskiy and L. G. Angert is mentioned in the text. There are 4 figures, 4 tables, and 19 references, 9 of which are Soviet.

ASSOCIATION: Fisike-khimicheskiy institut im. L. Ya. Karpova Moskva (Institute of Physical Chemistry imeni L. Ya. Karpov, Moscow)

SUBMITTED: May 12, 1958

Card 3/3

BEMFORD, K. [Bamford, C.H.]; BARB, U. [Barb, W.G.]; DZHENKINS, A. [Jenkins, A.D.]; ON'ON, P. [Onyon, F.F.]; CRITSENKO, T.M., kand.khim. nauk, [translator]; MILYUTINSKAYA, R.I., kand.khim. nauk, [translator]; PRAVEDNIKOV, A.N., kand.khim. nauk [translator]; MALINSKIY, Yu.M., kand.khim. nauk, red.; KHODETSKAYA, Z.F., red.; PRIDANTSEVA, S.V., tekhn. red.

[Kinetics of vinyl polymerization by radical mechanisms] Kinetika radikal'noi polimerizatsii vinilovykh soedinemii. [By] C.H. Bamford i dr. Moskva, Izd-vo inostr. lit-ry, 1961. 345 p. Translated from the English. (MIRA 15:3) (Vinyl compound polymers) (Radicals (Chemistry))

36520 S/081/62/000/006/017/117 B166/B101

J. 7 YOU AUTHORS:

Bagdasar'yan, Kh. S., Milyutinskaya, R. I., Trosman, E. A.,

Borovkova,, V. A.

TITLE:

Quantitative studies of radical reactivity by the competitive

reaction method

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 6, 1962, 53, abstract 6B360 (Tr. po khimii i khim. tekhnol. Gor'kiy no. 1, 1961,

12 - 17)

TEXT: Using a method described earlier (RZhKhim, 1960, no. 24, 96341), measurements were made of the relative rates of attachment of phenyl radicals to aromatic rings (rate constant k_1) and of the separation rates of hydrogen from alkyl benzenes by phenyl radicals (constant k_2). Separation of chlorine from carbon tetrachloride was taken as the standard reaction (constant k_3). The following values of the constants were obtained at 100° C (the first figure is k_1/k_3 , the second figure is k_2/k_3): bensene Card 1/2

Quantitative studies of radical ...

S/081/62/000/006/017/117 B166/B101

0.235; -; nitrobenzene 1.0; 0.1; naphthalene 5; 0; toluene 0.48; 0.33; isopropyl benzene 0.98; 0.85; polystyrene 0.62; 0.06. The polar substitutes - the electron-donor and electron-acceptor-- activate the phenyl rings. There is no marked separation of hydrogen from the aromatic rings. The rate of hydrogen separation from the alkyl groups of polystyrene is considerably lower than it is from isopropyl benzene, which is apparently attributable to the steric factor. [Abstracter's note: Complete translation.]

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14

Card 2/2

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0011343300

23

L 19715-65 EWT(m)/EFF(c)/EWP(j) Pc-li/Pr-li ASD(p)-3/RAEM(1) RM/MLK ACCESSION NR: AT4049866 S/0000/64/000/000/0265/0271

AUTHOR: Bagdasar'yan, Kh. S., Sinitsy na, Z. A., Milyutinskaya, R. I.

1211

TITLE: Kinetic study on the effect of antioxidants during the oxidation of rubber. I. Kinetics of the uninhibited oxidation of rubber.

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 265-271

TOPIC TAGS: synthetic rubber, rubber oxidation kinetics, antioxidant, benzoylperoxide, azodiisonutyronitrile

ABSTRACT: The kinetics of oxidation of 0.1 g specimens of sodium-butadiene rubber were studied at 60-100C under constant oxygen pressure in a thermostat equipped with a differential manometer, and also with oxygen circulation and freezing out of the decomposition products in a cold trap. The specimens were purified by reprecipitation and deposited from benzene solution as approximately 0.1-mm thick films. The tests showed posited from benzene solution as approximately 0.1-mm thick films. The tests showed that oxidation rates increased during an initial period, and that this lag period does not depend on the presence of inhibitors or their consumption. A second and nearly stationary period was followed by the rapid decrease of oxidation rates in the third and final period. The initial period was not affected by removal of oxidation products, nor by the thickness

Card 1/2

L 19745-65 ACCESSION NR: AT4049866

of the film, and addition of up to 3.58% benzoylperoxide or 4.68% azoisobutyrodinitrile did not change the rate of the stationary process, although the initial period decreased. The concentration of peroxides was determined in some runs by iodometric titration, revealing a stationary peroxide concentration of 23 and 14.5 mmol/mol monomer at 80 and 100° respectively, within an error of 2 and 3 mmols. The kinetic model was based on a radical chain reaction with branching and R. and RO2. as species for rate determination. The stationary rate was found to be proportional to oxygen pressure and to increase with the lature; the effective activation energy was approximately 15 kcal/mol, the branching factors at least 0.35, and the rate constant for decomposition of rubber peroxide was (2. 0.5) · 10-2 min -1 with an activation energy of approximately 21 kcal/mole. "The deconstition of benzoyl peroxide in rubber was studied by E. A. Trosman in the authors labilitory. The authors thank A. S. Kuz'minskiy and L. G. Angert for helping with the work and evaluating the results." Orig. art. has: 1 table, 4 figures and 18 formulas.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physiocochemical Institute)

SUBMITTED: 18Jul63

ENCL: 00

SUB CODE: MT, OC

NO REF SOV: 003

OTHER: 002

Card 2/2

E COMMANDAL, FL. N., PHYMTHISKAYA, R. I.

Aincid: study of the effect of thi bitors of rubber a matter.

Fart 2. Vysokom. sced. 6 no.6:1098-1103 Je 164 (NDRA 1881)

1. Flaiks-khizicheskiy institut imeni Barpova, Moskva.

MILYUTINSKAYA, R.I.; BAGDASAR'YAM, Kh.S.

0

New data on the sensitized fermation of cation radicals in the low temperature radiolysis of films containing aromatic amines. Zhur. fiz. khim. 38 no.3:776-778 Mr 164.

(MJRA 17:7)

1. Fiziko-khimicheskiy institut imeni I.Ya. Karpova.

MILYUTINA, Z. N.

PHASE I BOOK EXPLOITATION

sov/5337

Panasenkova, Ye. I., ed.

Issledovaniya kriticheskikh parametrov reaktornykh sistem; sbornik statey (Study of Critical Parameters of Reactor Systems; Collection of Articles) Moscow, Gosatomizdat, 1960. 117 p. Errata slip inserted. 3,600 copies printed.

Tech. Ed.: N.A. Vlasova.

PURPOSE: This collection of articles is intended for nuclear physicists and engineers of nuclear power plants.

COVERAGE: The book contains previously unpublished original articles concerned with the theoretical calculation of neutron fluxes and of critical parameters (critical masses and volumes) of various reactor systems: uranium-graphite, uranium-beryllium, and water mixtures of uranium and plutonium. Individual articles present tables and graphs used in the determination of the dependence of critical parameters on the relative concentration and the character of the fissionable material and the moderator, as well as on fuel enrichment for a wide range of neutron energy spectra. The following are mentioned: P.A. Gavrilov (scientific editor of the collection), and S.I. Sokolov, L.N. Spakhova,

-Card 1/3_

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134330

Study of Critical Parameters of Reactor Systems (Cont.) SOV/5337	7
Marchuk, G.I., G.A. Ilyasova, V. Ye. Kolesov, V.P. Kochergin, L.I. Kuznetsova, and Ye. I. Pogudalina. Critical Masses of Aqueous Mixtures of Compounds of Uranium and Plutonium	57
Zagrafov, V.G., Interaction of Systems of a Fissionable Substance in a Scattering Medium	75
Kamayev, A.V., B.G. Dubovskiy, V.V. Vavilov, C.A. Popov, Yu.D. Palamarchuk, and S.P. Ivanov. Experimental Study of the Interaction Effects of Two Subcritical Reactors	101
Marchuk, G.I., B.G. Dubovskiy, V.V. Smelov, and Z.N. Milyutina. The Design of Sectionalized Nuclear Plants	107
AVAILABLE: Library of Congress	
Card 3/3_	JA/dwm/mas 7-29-61

ACCESSION NR: APHOLOLIS9

5/0190/64/006/006/1098/1103

AUTHORS: Bagdasar'yan, Kh. S.; Milyutinskaya, R. I.

TITLE: Kinetic investigation of the action of inhibitors of rubber oxidation

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 6, 1964, 1098-1103

TOPIC TAGS: rubber exidation inhibitor, exidation induction period, molecule lifetime, exidation initiator, sedium butadiene rubber

ABSTRACT: The authors studied the inhibited oxidation of sodium butadiene rubber in the temperature interval $90\text{-}100^\circ$. They found that the duration of the induction period for various inhibitors varies by a factor in excess of 100. The amount of oxygen utilized during the induction period is from 10 to 1000 times the amount of the added inhibitor. The inhibited oxidation of rubber has been analyzed for the case when the reciprocal of the rubber-peroxide decomposition constant is much less than the induction period. The induction period Υ may be represented by the approximation $\Upsilon \approx \beta x_0 (1-S) V_{in}$, where β is the inhibition coefficient (ranges from 0 to 2), x_0 the initial concentration of the inhibitor, S the regeneration coefficient of the inhibitor (ranges from 0 to 1), and V_{in} the initiation rate.

ACCESSION NR: APLOLOL89

Regeneration of the inhibitor molecules is probably due to disproportionation of the inhibitor radical and the polymer radical. The addition of an oxidation initiator diminishes the induction period in such a way as to suggest that the initiator radical reacts directly with the inhibitor molecules. The conclusion on initiator radical reacts directly with the inhibitor molecules. The conclusion on the effective regeneration of inhibitors is based on the assumption that the true amount of absorbed oxygen in the induction period is near the threshold value observed by experiment. If the first value is much larger than the second, it is then necessary to determine the absolute value of $\beta/(1-\delta)$ in order to explain the causes for differences in the efficiency of the inhibitors. Orig. art. has: I figure, 2 tables, and 17 formulas.

ASSOCIATION: Fiziko-khimicheskiy institut im. V. L. Karpova (Physicochemical Institute)

SUBMITTED: 18Jul63

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OTHER: 002

Cord 2/2

MILYUTKIN, A. F., Cand Agr Sci -- (diss) "Growing of sugar sorghum for silage in Balashovskaya blast." Saratov, 1957.

19 pp (Min Agr USSR, Saratov Agr Inst), 150 copies (KL, 1-58, 120)

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Preparation of γ -, γ -dimethylallyl alcohol and isopropenylethyl alcohol from the product resulting from the condensation of isobutylene. Zhur. ob. khim. 31 no.4:1154-1157 Ap '61.

(MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy vitaminnyy institut.
(Butenol) (Pentenol)

SOV/137-58-7-15385

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 208 (USSR)

AUTHORS: Ipat'yev, V.V., Ivanova, M.A., Milyuts, G.B.

TITLE: Formation of Scale on 25% Iron-nickel Steel in Air Containing

Water Vapor and Sulfur Dioxide (Okalinoobrazovaniye na 25protsentnoy zhelezo-nikelevoy stali v vozdukhe, soderzha-

shchem vodyanov par i sernistyy gaz)

PERIODICAL: Uch. zap. LGU, 1957, Nr 227, pp 48-58

ABSTRACT: Investigation of the kinetics of the oxidation and the structure of scale on steel containing 23.6% Ni at 750-980°C in dry

air, moist air (10-20% H₂O), steam, and moist air with addition of 1-5% SO₂. The rate of oxidation was determined by the method of periodic weighing during a test lasting up to 120 hrs. It was determined that an increase in the humidity of air up to 10-15% sharply increases the speed of oxidation of a given steel. Addition of 1-5% SO₂ to the moist air at 750-800° shows no appreciable influence on the rate of oxidation of Ni and

steel. The structure and the order of sequence of layers of scale on steel recall the scale forming on Fe under analogous

Card 1/2 conditions. Unexidized Ni concentrates in the inner

SOV/137-58-7-15385

Formation of Scale on 25% Iron-nickel Steel in Air (cont.)

heterogenous layer of scale and its content in this layer is 150-200% higher than in the original steel. FeO as a separate layer in the scale forms only on addition to the air of ~1% $\rm H_2O$. The comparative thickness of this layer increases with an increase in the humidity of the medium. Addition of up to 5% $\rm SO_2$ does not change the appearance of the scale formed.

V.S.

1. Nickel steel--Scale 2. Nickel steel--Oxidation 3. Nickel steel--Moisture factors

Card 2/2

VOLOSKOV, N.; MILYY, K.

1.

Testing motion-picture projectors in workshops and repair stations. Kinomekha nik no.10:33-37 0 '53. (MERA 6:10)

(Noving-picture projectors)

MILZ. V.

TECHNOLOGY

PERIODICAL: EPULETGEPESZET. Vel. 4, me. 6, 1955

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SOURCE: East European Accessions List (EFAL) Library of Congress, Vol. 5, No. 11, November 1956

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Compensating background noise. Radio no.6:44 Je '57. (MIRA 10:7)

(Amplifiers, Electron-tube)

Mils, V.

Possibilities of development in manufacturing boilers for central heating; also, remarks by R. Tarjan and others. p. 400

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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R001134330

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"The effect of antibiotics and antiseptics in vitro on the ozena bacterial flora and on <u>Klebsiella rhinoscleromatis</u>." p. 175.
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(CHOROID dis)

(RETINITIS diag)

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Aero-biological investigations in Zagreb and on the Island of Rab. B. Investigations on pollen. Rad. med. fak. Zagreb. 10 no.1:39-46 162. (POLLEN)